| L Number | | Search Text | DB. | Time stamp 1001/06/06 10:34 |
|----------|----|---|--------------------------------|--------------------------------|
| 1 | 9 | (morinda adj citrifolia same fruit) or m.citrifolia same fruit) or noni near4 fruit | USFAT; EPO; JPO; CERWENT | . UC. / Uh/ UO 10:34 |
| 2 | 10 | (morinda adj citrifolia same fruit) or (m.citrifolia same fruit) or noni near4 truit | USFAT; EPO; JPO; DEFWENT | 1000,0m/06 10:32 |
| 3 | 1 | ((morinda adj citrifolia same fruit) or .m.citrifilia same truit; or noni near4 fruit) same (arti-tumor\$3 or anti-cancer\$3 dr antitumor or anticancer\$4 or cancer\$4 cr tumor\$4 or antioxidant or anti-oxidant) | USEAT; EPU; JP ; DEFWENT | 2003/06/06 10:34 |
| 4 | 38 | (morinda adj citrifolia) or m.citrifolia or noni near4 fruit | USFAT; EPD; JPD; FERWENT | . ()0.2.()% (06-10:34 |
| 5 | 38 | (morinda adj citrifolia) or m.citrifolia er noni near4 fruit | USPAT; EPO; JPO; DEFWENT | . 002 1)6. 06 10:35 |
| 6 | 4 | <pre>(morinda adj gitrifolia) or m.citrifolia or noni near4 fruit) same (anti-tumor\$3 or anti-cancer\$3 or antitumor or anticancer\$4 dr cancer\$4 or tumor\$4 or antioxidant or anti-oxidant.</pre> | US:AT; EP0; JP0; DEFWENT | 2002-06-06 10:35 |
| 7 | 38 | embrinda adj citrifolia) or micitrifolia er noni near4 fruit or juice\$2) | USPAT; EPU; JPD; DEPWENT | 2)0.2/06/06 10:35 |
| 8 | 7 | <pre>-(morinda adj citrifolia) or m.citrifolia or noni near4 fruit) and(anti-tumor\$3 or anti-cancer\$3 or antitumor or anticancer\$4 or cancer\$4 or tumor\$4 or antioxidant or anti-oxidant)</pre> | USIAT; EPO; JPO; DEFWENT | 2002,'06/06 10:36 |

CLIPPEDIMAGE= JP406087736A

PAT-NO: JP406087736A

DOCUMENT-IDENTIFIER: JP 06087736 A

TITLE: ANTICANCER AGENT

PUBN-DATE: March 29, 1994

INVENTOR-INFORMATION:

NAME UMEZAWA, KAZUO IMOTO, MASAYA OBA, SHIGERU KOYANO, TAKASHI KOMIYAMA, YOSHIKO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

UMEZAWA KAZUO

N/A

TONEN CORP

N/A

APPL-NO: JP04264311

APPL-DATE: September 7, 1992

INT-CL_(IPC): A61K031/12; A61K035/78

ABSTRACT:

PURPOSE: To obtain an anticancer agent containing 1-methoxy-2formyl-3-hydroxyanthraquinone obtained from extract of Morinda citrifolia which is a tropical plant as an active ingredient.

CONSTITUTION: Morinda citrifolia naturally grown or partially cultured in Southeast Asia is extracted with a solvent such as chloroform at ambient temperature to 60°C to afford 1-methoxy-2-formyl-3-hydroxyanthraquinone of

the formula. Using this compound as an active ingredient, the objective anticancer agent is provided. This active ingredient exhibits action capable of inhibiting action of ras cancer gene product. Namely, this active ingredient exhibits activity capable of inhibiting proliferation of cancer cell and normalizing the form of the cell.

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From:

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Thursday, June 06, 2002 10:38 AM

To:

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Subject:

references for 09/997,588

Cancer preventive effect of Morinda citrifolia (Noni).

AU Wang M.Y.; Su C.

CS Dr. M.Y. Wang, Department of Pathology, UIC College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107, United States. mianwang@uic.edu

SO Annals of the New York Academy of Sciences, (2001) 952/- (161-168).

Refs: 18

ISSN: 0077-8923 CODEN: ANYAA

CY United States

DT Journal:

I need the following references please:

Morinda citrifolia and ***cancer*** prevention.

Wang M Y; Su S; Nowicki A D; Jensen J; Anderson G ΑU

CS Univ.Illinois

LO III.; Utah, USA

J.Nutr. (131, No. 11, Suppl., 3151S-3152S, 2001) CODEN: JONUAI ISSN: 0022-3166

Department of Pathology, UIC College of Medicine, IL, U.S.A.

LA English

DT Journal

AN 2002:113281 FEDRIPT - Datase

TI STRUCTURE ELUCIDATION AND APPLICATION OF NATURAL ***ANTIOXIDANTS***

SF Principal Investigator: (product improvement)

Ho, C

CSP RUTGERS UNIVERSITY, FOOD SCIENCE, NEW BRUNSWICK, NEW JERSEY, 08903

FU HATCH ICH

FS Depart

Thank you!

Patricia Patten

Patent Examiner

U.S. Patent and Trademark Office

-Biotechnology Center 1600-

Art Unit 1651

308-1189

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IDENTIFYING NO.: (187576 AGENCY CODE: AGMIC STRUCTURE ELUCIDATION AND APPLICATION OF NATURAL

or lust imposement

ASSOCIATE INVESTIGATORS: Mo, C.

PREFORMING OFG.: EUTGERD UNIVERSITY, FOOD SCIENCE, NEW BEUNSWICK, NEW TERDET 1890:

TYPE OF AWARD: HATEL IS B

"MMMARY: It examine the antioxidant intivity of number of plant materials, and their extracts and fractions in several model and food by tem. To understand the mechanisms by which intioxidants exent their street. To searth for novel a curron of natural antioxidants and test their efficiency in different food systems frude outraits or source material will be examined for their antioxidant activity in vegetable and oil-in-water emulsion system. Crude extracts will be fractionated into "hydrophobis" and "nydrophobis" components. These will be tested in different systems in order to examin the interfacial phonomena. The most active components from the entirts will be isolated and those will

be themically characteria d.PR regions bordering the Indian Ocean such as Panceli and Jamon as well is Bawaii. The bark, stem, roots, leaves, and fruits have been used traditionally as a folk remedy for many diseases including disretes, hypertension, and cancer. We have done a complete analysis of the compensate in none fruits, leaves and noots. Several new and an which do and several anoun flavored glycosides was isolated from the leaves of Morinda citrifolia. Their antioxidative activities were measured. All of these compounds showed DPPE free ratical scavenging activity at the concentration of 30 microM. Carcinal, a polyisoprenylated cenzophenome, puritied from Garcinia

and indicatorist rind, displays antickidant properties and is thought to act as an untickidant in biological systems. However, the mechanisms of its antickidant reactions remain unknown. We have characterized the reaction products of quadriol with a stable radical, 2,2-diphenyl-1-picrylhydrazyl (OPPH). Structural elucidation of these products can provide insights into specific mechanisms of antickidant reactions. Two major reaction products, GDPPH-1 and GDFPH-2, were isolated and identified for the first time. Their structures were determined on the basis of detailed high-field 1D and 3D spectral analysis. The identification of these products provides the first

unamniquous proof that the principal sites of antioxidant reactions are on the phenolic ring and the 1,3-diketone part of garcinol. The induction of apoptosis in human leukemia HL-60 cells, the innibition of NO generation, the effects on the activity of MMP, and the innibitory effects on HlOD production of TPA-stimulate HL-60 cells by garcinol and its two exidant products were investigated.PB Dong, 2.; Ghai, G.; Rosen, B. T.; Hu, C.-T. Citrifolinin A, a New Unusual Triccia with Inhibition of Activator Protein-1 (AP-1) from the Leaves of Nemi (Morinda citrifolia L.C. Tetrahedron Letters 2001, 41, 1813-1805.PB of Apoptosis by Garcinol and Curbumin through Cytochrome c Belease and

Activation of Caspases in Human Leukemia HL-60 Cells. Journal of Agricultural and Food Chemistry 2001, 49, 1464-1474.PB G.; Fosen, E.T.; Ho, C.-T. Bicactive Constituents from Gum Guggul (Commiphora wightis: Ehytochemistry 2001, 56, 713-727.PB Identification of Feaction Products of (-:-Epigallocatechin, (-)-Epigallocatechin Gallato and Pyrogallol with I.2-Diphonyl-1-proryihydrazyl Radical. Food Chemistry 2001, 73, 345-349.FB 3.; Ghai, G.; Fosen, E.T.; Ho, C.-T. A New Unusual Iridoid with Inhibition of Activator Frotein-1 (AB-1) from the Beaves of Morinda citrifolia 5. Organic Letters 2001, 1, 1307-1300.FB Yang, C.S. Formation and Identification of 4'-0-Methyl-(-)-epigallocatechin in

Humans. Drug Metabolism and Disposition 2001, 19, 789-793.PB F.T.; He, D.-T. Eddysteroids of Quinoa Seeds (Chenopodium quinoa Willd). Journal of

Agricultural and Food Chemistry 2001, 49, 2576-2578.PB V.; Ghai, G.; Rosen, R.T.; Ho, C.-T. Iridoid Glycosides from the Leaves of Morinda citrifolia. Journal of Natural Products 2001, 64, 799-800.PB C.-T. Antioxidative Flavonoid Glycosides from Quinoa Seeds (Chenopodium quinoa Willd). Journal of Food Lipids 2001, 8, 37-44.PB Glycosides from the Fruits of Morinda citrifolia (Noni) Inhibit AP-1 Transactivation and Cell Transformation i DESCEIPTORS: food chemistry; antioxidants; natural substances; food products; structural analysis; piological activity; plant extracts; biochemical mechanisms; performance testing; vegetables; emulsions; hydrophobic interactions; fractionation; chemical analysis; toxicology; food quality; radicals; product improvement